

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A medical device comprising:
an implantable tubular extrudate comprising an interpenetrating polymer network comprising a non-expanded PTFE matrix having no node and fibril structure, said matrix having distributed therein discrete domains of an extractable polymeric material, wherein upon exposure to sufficient dissolving medium or degradation temperature, said extractable polymeric material is extracted from said matrix to create pores in said tubular extrudate which upon implantation permit tissue ingrowth.
2. (original) The medical device of claim 1 further including a radially distensible stent positioned axially about said tubular extrudate.
3. (previously presented) A vascular graft comprising:
an implantable tubular extrudate comprising an interpenetrating polymer network comprising a non-expanded PTFE matrix having no node and fibril structure, said matrix having distributed therein discrete domains of an extractable polymeric material, wherein upon exposure to sufficient dissolving medium or degradation temperature, said extractable polymeric material is extracted from said matrix to create pores in said tubular extrudate which upon implantation permit tissue ingrowth.
4. (withdrawn) A method of forming a porous PTFE product comprising:
providing a mixture of PTFE and an extractable polymer material;
extruding said mixture to form an extrudate comprising a PTFE matrix with discrete domains of said extractable polymer material;

subjecting said extrudate to a solvent for said polymer material, a temperature sufficient to degrade said polymer material or a combination thereof, whereby at least a portion of said polymer material is extracted, thereby forming pores in said extrudate.

5-10. (cancelled)

11. (withdrawn) A method of making an endoprosthesis device comprising the steps of:
providing an elongate radially expandable tubular stent;
providing a porous polytetrafluoroethylene by extracting siloxane from an interpenetrating network of siloxane and polytetrafluoroethylene;
forming a stent cover from said porous polytetrafluoroethylene; and
applying said stent cover to said interior surface, said exterior surface, or both of said stent wherein said stent cover extends along the longitudinal stent axis.

12. (withdrawn) The method of Claim 7 wherein said stent cover is applied to said interior surface and to said exterior surface of said stent.

13. (withdrawn) The method of Claim 7 wherein said stent cover is fixed to said stent using an adhesive.

14. (withdrawn) The method of Claim 9 wherein said adhesive is selected from the group consisting of polyurethanes, epoxies, cyanoacrylates, polyamides, polyimides, and silicones.

15. (withdrawn) The method of Claim 7 wherein said stent cover is fixed to said stent by a welding process, said welding process comprising heating the polytetrafluoroethylene stent cover to a temperature that is greater than the sintering temperature of the polytetrafluoroethylene.

16. (withdrawn) A method for producing a porous polytetrafluoroethylene tube useful in medical devices comprising the steps of: providing an interpenetrating network of siloxane and polytetrafluoroethylene; and removing said siloxane from said interpenetrating network leaving a porous polytetrafluoroethylene structure.

17 – 20. (canceled)

21. (previously presented) The medical device according to Claim 1, wherein said extractable polymeric material comprises silicone.

22. (previously presented) A medical device comprising:

a tubular extrudate comprising an interpenetrating polymer network comprising a non-expanded PTFE matrix having no node and fibril structure, said matrix having distributed therein discrete domains of an extractable polymeric material, said extractable polymeric material being particulate and having a particle size of about 5 to 100 microns,

wherein upon exposure to sufficient dissolving medium or degradation temperature, said extractable polymeric material is extracted from said matrix to create pores corresponding to said particle size in said tubular extrudate which upon implantation permit tissue ingrowth.

23. (previously presented) An implantable, non-expanded, porous PTFE extrudate comprising:

a tubular extrudate comprising non-expanded PTFE having no node and fibril structure;
and

a plurality of pores distributed throughout said non-expanded PTFE, said pores having a shape defined by an extracted polymeric material, said polymeric material being in a form selected from the group consisting of a gel, liquid and flowable material.

24. (currently amended) An ~~implantable~~ PTFE extrudate ~~comprising~~ consisting essentially of:

a non-expanded PTFE resin having no node and fibril structure; and

a particulate polymeric component which is incompatible with said non-expanded PTFE resin,

wherein discrete domains of said polymeric component are distributed throughout said non-expanded PTFE resin and are extractable therefrom to create pores in said PTFE resin which upon implantation permit tissue ingrowth.

25. (new) A PTFE extrudate comprising:

a non-expanded PTFE resin having no node and fibril structure; and

a particulate polymeric component which is incompatible with said non-expanded PTFE resin, said polymeric component being selected from the group consisting of polyvinyl alcohol, cellulose triacetate, poly(oxyethylene glycols), ethyl cellulose, methylcellulose, cellulose propionate, carboxymethylcellulose, poly(vinylformal), poly(sodium acrylic acid), poly(sodium methacrylic acid), polyvinylacetate, polystyrene, poly(vinylpyrrolidone), poly(ethyleneterephthalate), polyacrylonitrile, poly(methacrylate), poly(methylmethacrylate), poly(oxymethylene), poly(acrylic acid), poly(acrylamide), nylon 6, nylon 6,6 and nylon 6, 10,

wherein discrete domains of said polymeric component are distributed throughout said non-expanded PTFE resin and are extractable therefrom to create pores in said PTFE resin which upon implantation permit tissue ingrowth.

26. (new) A PTFE extrudate comprising:

a non-expanded PTFE resin having no node and fibril structure; and

a polymeric component which is incompatible with said non-expanded PTFE resin, said polymeric component being in a form selected from the group consisting of a gel, liquid and flowable material,

wherein discrete domains of said polymeric component are distributed throughout said

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non-expanded PTFE resin and are extractable therefrom to create pores in said PTFE resin which upon implantation permit tissue ingrowth.